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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

SP-150 SERIES

Jameco Part Number
201911 (SP-150-5)

- .LOW COST, HIGH RELIABILITY
- .105◦C OUTPUT CAPACITOR
- .INTERNATIONAL AC INPUT RANGE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE
- .BUILT IN PFC CIRCUIT
- .REMOTE CONTROL (OPTION)
- .OVER TEMPERATURE PROTECTED (OPTION)

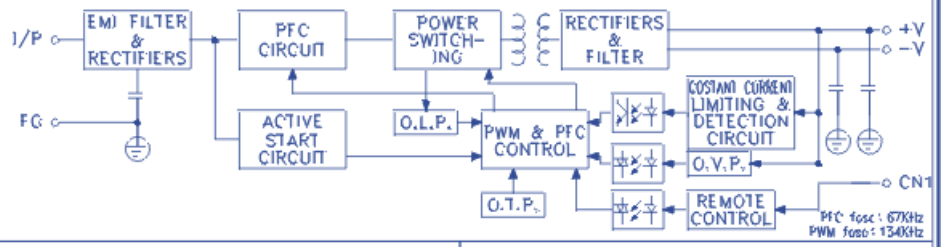
MODEL / SPECIFICATION	SP-150 -3.3	SP-150 -5	SP-150 -7.5	SP-150 -12	SP-150 -13.5	SP-150 -15	SP-150 -24	SP-150 -27	SP-150 -48
DC OUTPUT VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
OUTPUT V. TOLERANCE	±2%	±2%	±2%	±2%	±2%	±2%	±1%	±1%	±1%
OUTPUT RATED CURRENT	30A	30A	20A	12.5A	11.2A	10A	6.3A	5.6A	3.2A
OUTPUT CURRENT	0-30A	0-30A	0-20A	0-12.5A	0-11.2A	0-10A	0-6.3A	0-5.6A	0-3.2A
RIPPLE & NOISE	100mV	100mV	100mV	100mV	100mV	100mV	150mV	150mV	250mV
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1%	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
RATED OUTPUT POWER	99W	150W	150W	150W	151.2W	150W	150W	151.2W	153.6W
EFFICIENCY	67%	75%	79%	80%	80%	81%	83%	84%	84%
DC VOLTAGE ADJ.	CH1:+10,-5%								
INPUT VOLTAGE RANGE	85~264VAC 47~63Hz 120~370VDC								
AC CURRENT	2.2A/115V 1.1A/230V 3.3V: 1.5A/115V 0.8A/230V								
INRUSH CURRENT	COLD START 40A/230V								
LEAKAGE CURRENT	< 2 mA / 240VAC								
OVERLOAD PROTECTION	105~150% TYPE:CONSTANT CURRENT LIMITING RESET:AUTO RECOVERY								
OVER VOLTAGE PROTECTION	110%~135% TYPE:SHUTDOWN RESET:RE POWER ON								
OVER TEMP. PROTECTION (OPTION)	95◦C±5◦C (TSW1) TYPE:SHUTDOWN RESET:AUTO RECOVERY								
REMOTE CONTROL (OPTION)	CN1: 3 ~15VDC POWER ON, <1VDC POWER OFF								
TEMP. COEFFICIENT	±0.05% / ◦C (0~50◦C)								
SETUP, RISE, HOLD UP TIME	600ms, 30ms, 20ms								
POWER FACTOR	PF>0.96/230VAC, PF>0.98/115VAC								
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES								
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms								
WORKING TEMP., HUMIDITY	-10◦C~+60◦C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH								
STORAGE TEMP., HUMIDITY	-20◦C~+85◦C, 10%~95% RH								
DIMENSION	199*99*50mm (L*W*H) CASE:916A								
WEIGHT	750gs								
SAFETY STANDARDS	UL1950, TUV EN60950, S-MARK APPROVED								
EMC STANDARDS	CISPR22 (EN55022) CLASS B, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-3-2,-3 VERIFICATION								

NOTE :
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25◦C AMBIENT.
2. TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.

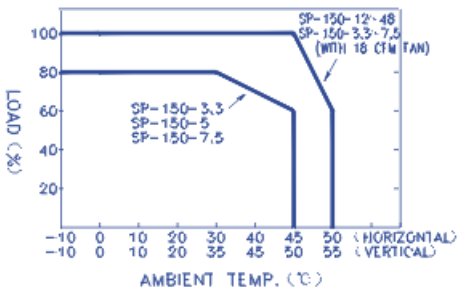
2001-08-06

SP-150 SERIES

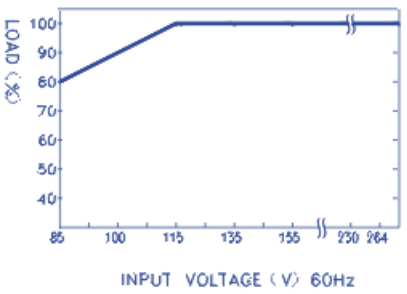
BLOCK DIAGRAM



OUTPUT DERATING VS Ta



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

- CASE : 916A
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4,5 : DC OUTPUT -V
  - PIN 6,7 : DC OUTPUT +V
  - CN1 : REMOTE CONTROL (OPTION) (JST B2B-XH COMPATIBLE)